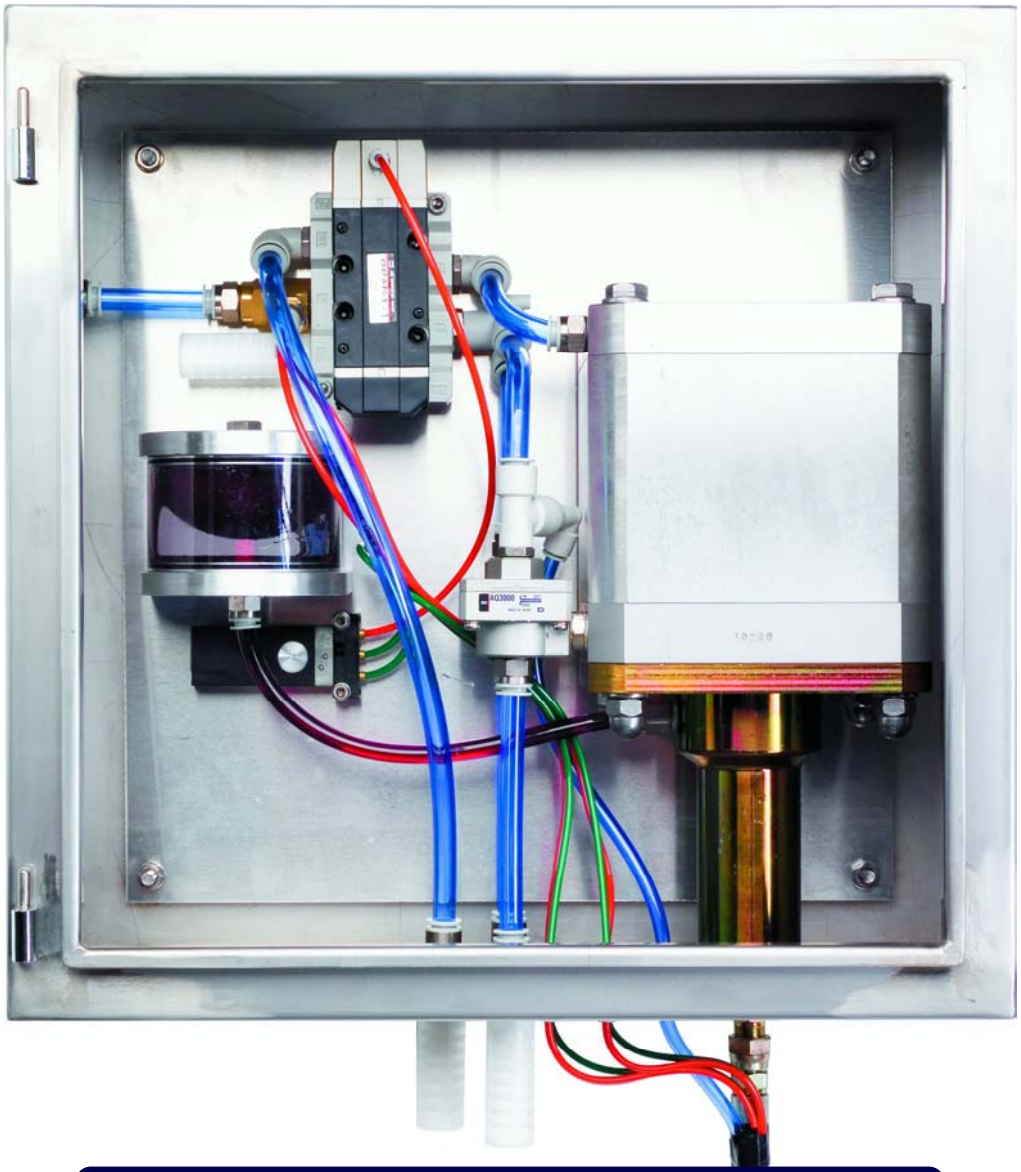
REALCOLD

Air/Oil Intensifier

Model RC50



INSTRUCTION MANUAL

CE

Imported by:

Licensed distributor

Specifications:

Designation:	**Air/Oil Intensifier**
Model No:	**RC50**
Type:	**3410** ☐ Supplied
Height:	570mm
Width:	500mm
Depth:	227mm
Weight:	35.33Kg
Hydraulic Circuit:	157Bar/2200Psi
	Shell Helix ATF III or equivalent
Pneumatic Circuit:	6.5-7.85Bar/90-110Psi

Serial No: _____

Test Date: _____

Manufacture Date: _____

Manufactured By: Argus Realcold Ltd
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CE

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Issue Date: 19-1-2005 Revision Number: 1.1 Revision Date: 19-6-2006

SAFETY INSTRUCTIONS FOR REALCOLD HAND TOOLS

As a designer, manufacturer, and supplier of plant and equipment Argus Realcold Ltd has provided plant, equipment, and all relevant information to ensure the safe use in accordance with the New Zealand Health and Safety in employment Act 1992.

The “CE” marked machines provided by Argus Realcold Ltd also meet the EC machinery directive 98/37/EC and any other relevant EC directive. It is the responsibility of the owner to ensure that the machine is used safely in accordance with the instructions and for the purpose that the machine was designed for.

The hand tools that we supply, with the exception of the RC33, are designed for two-handed operation and include the following:

RC20	Sheep Light Duty Scissor
RC21	Sheep Hock Cutter (Various blade options available)
RC22	Hydraulic Sheep Hock/Horn/Neck Cutter
RC25	Hydraulic Heavy Duty Sheep/Goat/Deer Hock/Horn Cutter
RC30	Hydraulic Beef Hock/Horn Cutter, Hog Head Cutter (Various blade options available)
RC31	Pneumatic Sheep & Lamb Brisket Opener
RC33	Pneumatic Wool Shear
RC35	Hydraulic Beef Loin/Head Cutter (Various blade options)
RC45	Hydraulic Heavy Duty Beef Horn Cutter
RC50	Air/Oil Intensifier

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NOTICE TO OPERATORS, MAINTENANCE, AND CLEAN-UP PERSONNEL

OPERATORS

Stop using a defective or malfunctioning tool immediately. Report the problem or defect immediately to your supervisor for removal of tool from service.

Do not attempt to make repairs yourself; do not tamper with a defective or malfunctioning tool.

Do not attempt to free a jammed or blocked tool yourself.

Remove power from the tool when the tool is left unattended or is not in use.

Never tie-down, bypass, or alter the triggers or safety switches of the tool.

Wear safety glasses when operating this tool.

Do not activate switches of the tool unless you intend to operate and use the tool.

Do not allow unauthorised individuals to operate the tool.

Never place fingers, hands, or other parts of your body in the cutting path of the tool.

This tool is capable of causing severe injury or death if misused.

CLEAN-UP PERSONNEL

Shut off all power and disconnect all hydraulic and air hoses from the tool before performing clean up.

Take extreme care near sharp blades.

MAINTENANCE PERSONNEL

Shut off all power and disconnect all hydraulic and air hoses from the tool before making repairs, performing maintenance, and before replacing or sharpening blades.

Do not use substitute parts or use other than genuine Argus Realcold brand parts.

Use extreme care when testing or operating the tool.

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RC50 INTENSIFIER
INSTRUCTIONS FOR COMMISSIONING

1. Mount securely near the operating station with the hose hanging down from the bottom of the cabinet.
   Choose a location where the unit will be away from water spray and other contaminants, and close to an air supply.

2. Remove the plug from the oil reservoir and screw in the silencer, supplied loose for shipping.

3. Install a water trap and shut off valve/tap near the unit and connect the air supply to the unit with a length of 12mm hose. Try to keep the hose short as excess length will reduce air flow to the unit.

4. Mount hand tool onto a spring balancer at the operating station and connect the hydraulic hose to the coupling at the rear of the hand tool.

5. Connect the blue 8mm air line to the fitting near the tool handle. Trim to length as required.

6. Connect the paired red/green 4mm hoses to the hand tool, red to red, green to green. Trim to length as required.

7. Turn on the air supply to the unit. The tool is now ready to be operated. Operate the tool a few times to purge any air from the hand tool.

The unit is now ready for service.

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SERVICE SECTION

Before servicing this tool it is important to understand how this tool operates. While being very simple, understanding the principles of operation and their interaction will assist you to maintain the tool to optimum working efficiency. Fault diagnosis and repair will also be greatly simplified.

Principle of Operation:

Cutting Cycle:

- Operating valves are depressed supplying a positive air pressure signal to the pilot of the intensifier demand valve.
- The pilot pressure shuttles the valve allowing main supply air pressure to fill the accumulator master chamber.
- Pressure in the accumulator assembly master chamber causes the pneumatic piston to move, thus applying pressure to the hydraulic piston, and in turn to oil in the hydraulic cylinder.
- This hydraulic pressure then acts on the piston rod assembly in the hand tool, and causes the piston rod assembly to move.
- The movement of the piston rod assembly is now transmitted to the blades via cam links and the blades close.
- Hydraulic pressure will build to 138 bar/2000 PSI as soon as cutting pressure is exerted, causing the blades to cut through the animal's appendage.

Opening Cycle:

- Operating valves are released allowing the positive air pressure signal to vent through the valve exhaust port.
- Demand valve returns to it's at rest position and air pressure is applied to the pneumatic piston causing the hydraulic piston to be retracted.
- Pneumatic pressure is applied to the front of the piston rod assembly to push the piston rod assembly back in the hand piece to the at rest position.
- The movement of the piston rod assembly now pulls the blades, via the cam links to the open position.

The operating cycle is now complete.

Servicing:

Before any servicing is attempted on this tool disconnect and unplug from air supply. All hydraulic hoses and air supply hoses must be disconnected to render the tool inoperative according to Occupational Safety & Health requirement.

Intensifier Disassembly:

Before starting please make sure that the intensifier is clean and that you have a suitable work area available. A container will help prevent small parts from being lost or damaged.

1. Remove the front door panel.
2. Raise the hydraulic coupler above the oil reservoir and unscrew from the hydraulic hose.
3. Using a suitable container to catch the oil, lower the end of the hydraulic hose and drain all oil from the unit.
4. Disconnect the paired red/green airline from the fittings outside of the cabinet.
   Disconnect the blue airline from the fitting outside of the cabinet.
5. Unscrew the hydraulic hose from the nipple and store for later use. Unscrew the nipple and put it into the parts container.
6. Disconnect the airlines from inside of the cabinet. The 12mm air supply fitting will need to be removed.
7. Unscrew the four 8mm nuts securing the gear plate inside the cabinet and put them into the parts container.
8. Lift the gear plate with all of the equipment still attached out through the opening at the front of the cabinet.
9. Unscrew the four cap screws securing the air pilot valve to the manifold and put them into the parts container.
10. Unscrew the four cap screws securing the booster assembly to the gear plate and put them into the parts container.
11. Unscrew the four lock nuts from the bottom of the booster assembly, and put them into the parts container.
    Unscrew the four through bolts and put them into the parts container.
12. Lift the rear end plate from the assembly, followed by the cylinder body.
    Withdraw the piston and rod from hydraulic cylinder and put them onto the bench.
    Lift the front end plate from the hydraulic cylinder.
    Withdraw the spigot and seal carrier carefully from the hydraulic cylinder and put them onto the bench.

The intensifier is now disassembled ready for inspection and servicing.

Servicing:

1. Clean all parts thoroughly.

2. Visually inspect all parts for signs of wear or damage.

3. Unscrew the pilot valve cover. Remove the gasket and push the spool and plastic button out of the valve body.
   If the gasket or O-Rings are perished or swollen then replace them.
   Clean all parts thoroughly.

4. Reassemble the valve using a lightweight lubricant such as air tool oil.

5. Unscrew the four screws from the quick exhaust valve and separate into two pieces. If the rubber diaphragm is perished or swollen then replace it.
   Clean all parts thoroughly and reassemble.

6. Take the seal carrier and remove the two seals, and two O-Rings.
   If the seals and/or O-Rings are swollen or perished then replace them.
   Check the seals for wear or damage to the lips. If they are worn or damaged then replace them.
   Clean all parts thoroughly and reassemble.

7. Check the piston for swelling, perishing, abrasion, or other damage. If it is worn then replace it.
   Small nicks or damage to the piston rod can be polished out with fine (240 grit or finer) wet and dry sandpaper. Take care not to leave any flat spots.

8. Check the pneumatic seal in the front end plate for wear or damage. If it is swollen or perished then replace it. If worn or damaged then replace it.

9. Inspect the cylinder body for wear. If it is worn or damaged then replace it.
   Surface finish can be restored by honing lightly.

10. Reassemble the booster assembly. Make sure that the fitting on the side of the hydraulic cylinder is facing towards the quick exhaust valves.

11. Check all hoses for abrasion or other damage.
    Replace as required.

Intensifier Assembly:

Before starting, make sure that all parts are clean and free of oil and grease.

1. Reassemble the air pilot valve onto its manifold.

2. Mount the booster assembly onto the gear plate using the four cap screws removed earlier.
   Push the 12mm airlines from the demand valve into their fittings on the booster assembly.

3. Lift the gear plate with the booster assembly attached into the cabinet.

4. Apply Loctite 569 hydraulic sealer to one end of the nipple and install into the hydraulic cylinder.
   Secure the gear plate into the cabinet with the four 8mm nuts removed earlier.

5. Push the 10mm hose from the reservoir into the fitting on the hydraulic cylinder.

6. Push the 4mm airlines into their fittings, and the 8mm airline.
   Push the 12mm airlines into their fittings also.

7. Take the hydraulic hose and screw the flare fitting onto the nipple at the bottom of the hydraulic cylinder.

8. Push the 4mm hoses into their fittings, making sure that they are connected to the correct hoses inside (red/red, green/green).
   Push the 8mm airline into its fitting.

9. Apply a small amount of Loctite 569 hydraulic sealer to the threads at the end of the hydraulic hose.
   Screw the female hydraulic coupler onto the hose.

10. Fill the unit with automatic transmission fluid. A hose from a 20ltr container with a male coupler at the end makes this easy. Place the container on a shelf above the unit and connect the two hoses. The gravity feed effect bleeds any air from the unit as it fills.

11. Install the shipping plug into oil reservoir.
    The silencer should not be reinstalled until the unit is returned to its operating station.

Check the parts container and bench for any missing parts now.

Your RC50 intensifier is now ready to be returned to service.

Appendix 1

Parts Diagram and Ordering Form

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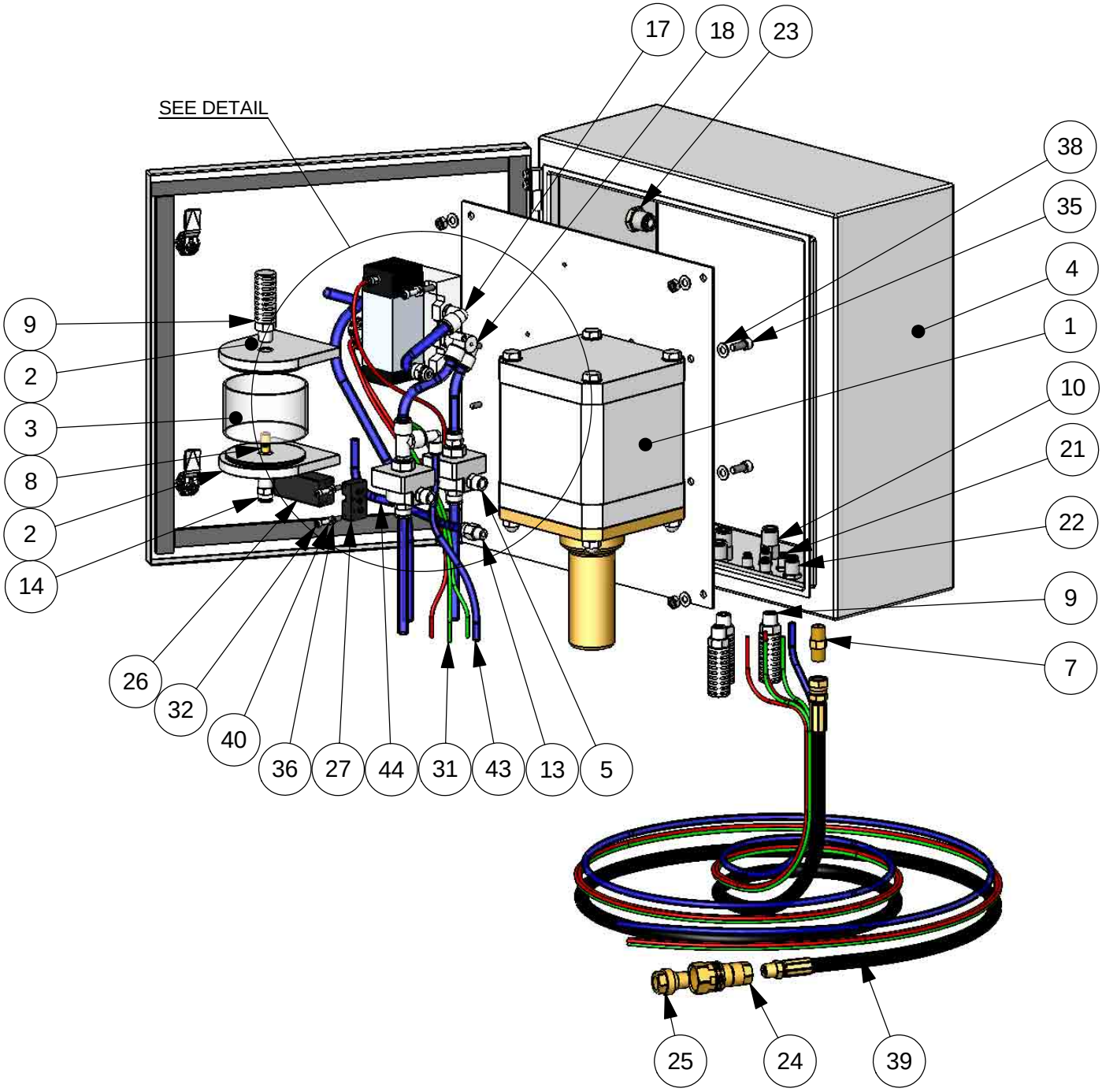
AIR/OIL INTENSIFIER RC50-3410
ANTI TIEDOWN, AIR RETURN

ITEM NO.	QTY.	PART N0.	DESCRIPTION
1	1	110-502101-A	HYDRAULIC ACCUMULATOR COMPLETE
2	2	170-508104-A	RESERVOIR END PLATE
3	1	170-508109-A	RESERVOIR BODY
4	1	170-508110-A	CABINET
	1	170-508110-2-A	GEAR PLATE
	2	170-508110-3-A	CABINET HINGE MALE
	2	170-508110-4-A	CABINET HINGE FEMALE
	1	170-508110-5-A	CABINET DOOR
	2	170-508110-6-A	CABINET DOOR LOCK
	1	170-508110-7-A	CABINET DOOR SEAL
	4	800-FWM8-304	M8 FLAT WASHER
	4	800-NM8-304	M8 HEX NUT 304
	8	800-FWM6-304	M6 FLAT WASHER
	8	800-SWM6-304	SPRING WASHER M6 304
	8	800-BHM610-304	M6x10 BUTTON HEAD SCREW 304
5	2	180-2102007-ZP	3/8 BSP HEX NIPPLE
6	1	180-400006	MALE/FEMALE RUN TEE
7	1	180-A-A-06-06	STRAIGHT NIPPLE 3-8BSPT
8	1	180-AN101-01	SILENCER, BRONZE, 1/8BSP
9	5	180-AN300-03	SILENCER
10	3	180-KQ2F12-03	FEMALE UNION 12mm-3/8BSP
11	1	180-KQ2H04-01S	STRAIGHT CONNECTOR 4mm-1/8BSP
12	1	180-KQ2H06-03S	STRAIGHT CONNECTOR 6mm-3/8BSP
13	1	180-KQ2H10-02S	STRAIGHT CONNECTOR 10mm-1/4BSP
14	1	180-KQ2H10-03S	STRAIGHT CONNECTOR 10mm-3/8BSP
15	5	180-KQ2H12-U03	STRAIGHT CONNECTOR UNI THREAD 12mm-3/8BSP
16	1	180-KQ2L08-12	REDUCING ELBOW
17	2	180-KQ2L12-U03	ELBOW CONNECTOR UNI THREAD 12mm-3/8BSP
18	1	180-KQ2LU12-03S	BRANCH UNION ELBOW 12mm-3/8BSP
19	1	180-KQ2X04-06	BRANCH Y REDUCER
20	1	180-KQ2Y12-U03	MALE RUN TEE
21	4	180-KQE04-00-X2	BULKHEAD UNION
22	1	180-KQE08-00-X2	BULKHEAD UNION
23	1	180-KQE12-00-X2	BULKHEAD UNION
24	1	180-QVV-F06	HYDRAULIC COUPLER FEMALE
25	1	180-QVV-M06	HYDRAULIC COUPLER MALE
26	1	190-2781580101	PNEUMATIC LOGIC VALVE
27	1	190-81532001	PNEUMATIC LOGIC VALVE BASE
28	2	190-AQ3000-03	QUICK EXHAUST VALVE
29	1	190-VS2-2-A03	PNEUMATIC VALVE MANIFOLD
30	1	190-VSA7-8-FG-S-1	ISO AIR PILOT VALVE
31	1	800-2-MP-4	4MM POLYURETHANE TUBE PAIRED
32	2	800-CSM535-304	CAP SCREW M5x35 304
33	4	800-CSM620-304	CAP SCREW M6x20 304
34	2	800-CSM650-304	CAP SCREW M6x50 304
35	4	800-CSM820-304	CAP SCREW M8x20 304
36	2	800-FWM5-304	M5 FLAT WASHER
37	6	800-FWM6-304	M6 FLAT WASHER
38	4	800-FWM8-304	M8 FLAT WASHER
39	1	800-HYD06-2.5	HYDRAULIC HOSE 3/8 X 2.5M
40	2	800-SWM5-304	SPRING WASHER M5 304
41	6	800-SWM6-304	SPRING WASHER M6 304
42	1	800-TU0425-R	4MM POLYURETHANE TUBE
43	1	800-TU0805-BU	8mm POLYURETHANE TUBE
44	1	800-TU1065-BU	10mm POLYURETHANE TUBE
45	1	800-TU1208-BU	12mm POLYURETHANE TUBE

AIR/OIL INTENSIFIER, ANTI TIEDOWN, AIR RETURN
RC50-3410



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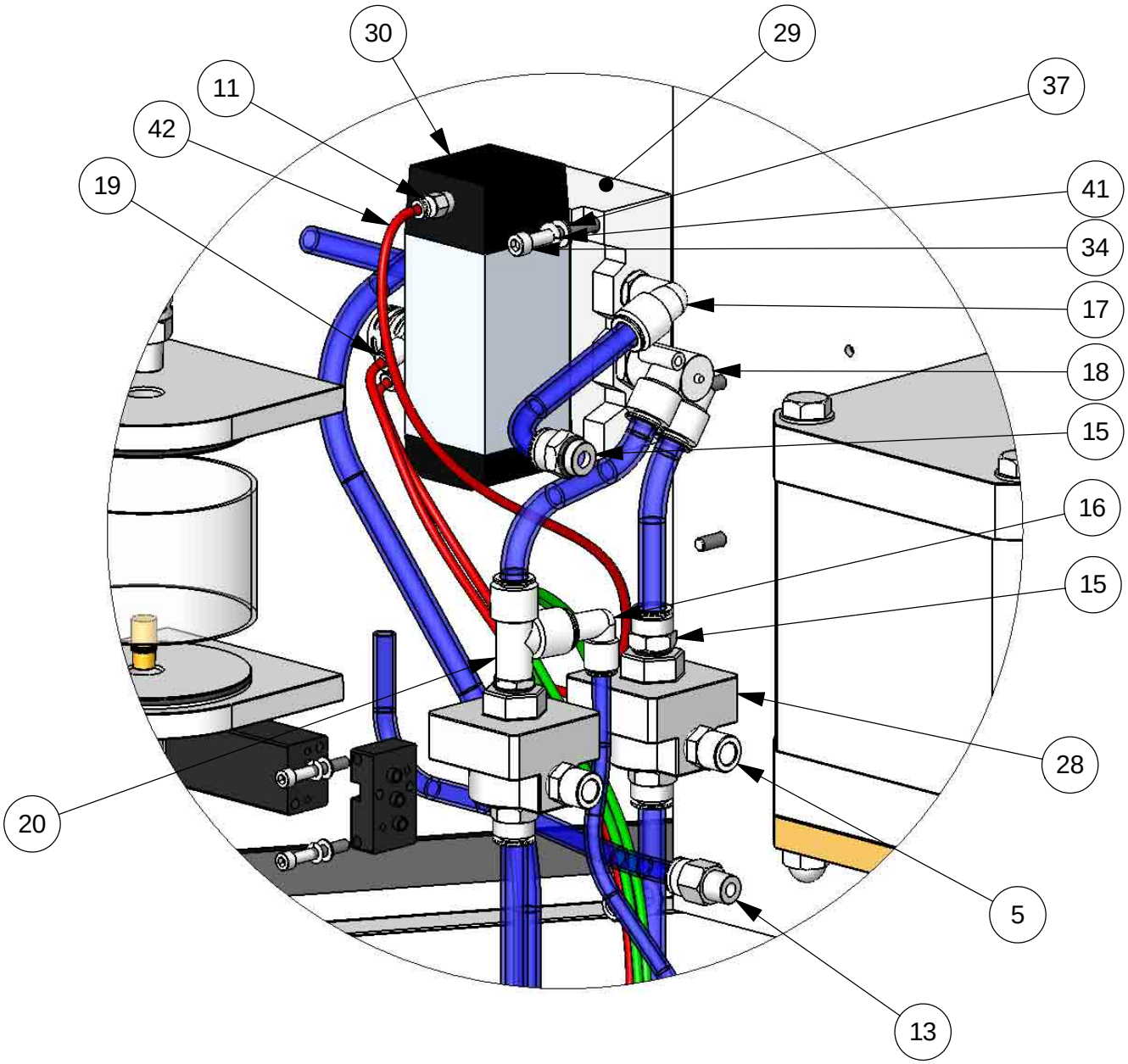
AIR/OIL INTENSIFIER, ANTI TIEDOWN, AIR RETURN
RC50-3410

DETAIL
SCALE 1 : 2



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	110-502102-A	PNEUMATIC CYLINDER BODY
2	1	110-502103-A	PNEUMATIC CYLINDER END PLATE
3	1	110-502104-A	PNEUMATIC CYLINDER BASE PLATE
4	1	110-502105-A	SEAL KIT
5	1	110-502106-A	HYDRAULIC CYLINDER SEAL CARRIER
6	1	110-502107-A	HYDRAULIC CYLINDER SEAL SPACER
7	1	110-502108-A	HYDRAULIC CYLINDER BODY
8	1	110-502109-A	PNEUMATIC CYLINDER PISTON
9	1	110-502110-A	HYDRAULIC CYLINDER PISTON ROD
10	1	110-502111-A	HYDRAULIC CYLINDER RETAINING PLATE
11	1	110-502112-A	NYLON WASHER
12	2	110-502113-A	20mm WASHER
13	1	110-502114-A	20mm NUT
14	8	800-FWM12-304	M12 FLAT WASHER
15	4	800-HBM12210-304	M12x210 HEX BOLT 304 S/S
16	4	800-ANM12-304	M12 ACORN NUT

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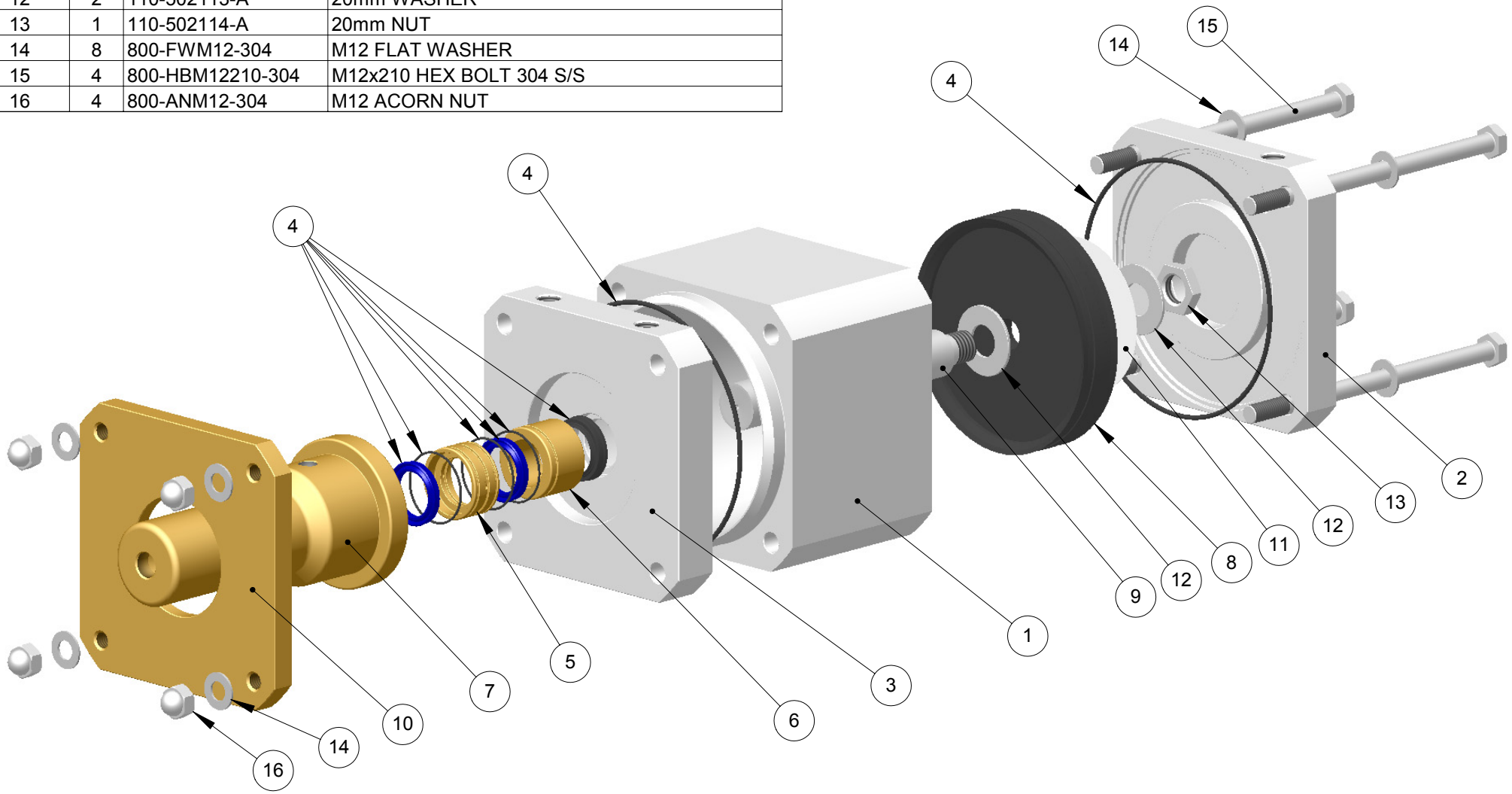
RC50 HYDRAULIC ACCUMULATOR COMPLETE
110-502101-A



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Ph 09 526 5757
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Order Number _____
Date _____
Tool _____
Serial Number _____

Customer Order Form

Name _____
Address _____
_____
_____
_____

Phone _____
Contact Person _____

Qty	Part Number	Description

Shipping Instructions:

Ship to Address _____
_____
_____
_____
_____

Attention _____

Level of Urgency Normal ☐ Urgent ☐

Appendix 2

Maintenance

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Maintenance

Please read this section thoroughly and make sure that these maintenance checks are carried out routinely as specified.

Adherence to this maintenance schedule will ensure that you enjoy long and trouble free service from your hand tool.

Before any servicing is attempted on this tool, disconnect and unplug from air supply. All hydraulic hoses and air supply hoses must be disconnected to render the tool inoperative according to Occupational Safety & Health requirement.

Check Daily:

1. Clean the intensifier thoroughly before inspecting.

2. Visually inspect the intensifier for any obvious damage to components, and for loose components.
   Anything that you find at this stage must be remedied immediately.
   The intensifier may need to be removed from service to affect remedy.

3. Check that the silencers are in good condition.
   If they are damaged the intensifier will be excessively noisy to operate.
   If they are very dirty they may restrict exhaust flow and cause the tool to operate slowly.

4. Look for oil in the pneumatic return line.
   If there is oil present then the hand tool piston seals are bypassing and must be replaced. This can occur when the hand tool is left submerged in a dunk type steriliser for an extended period.

5. Look for aeration of the oil in the reservoir.
   If the oil has air bubbles forming in it continuously then the pneumatic seal in the accumulator is leaking and must be replaced.
   If the air is becoming aerated in use then the quad ring piston seal in the hand tool may be worn require replacement.

6. Check the oil level in the intensifier reservoir (where applicable).
   It should be between ½ and ¾ full. Refill as necessary.
   Check the oil for colour and cleanliness at the same time.
   If the oil has a milky appearance then it is water contaminated and must be changed immediately. Refer to your intensifier manual for instructions.

7. Reconnect the hand tool and check that all couplers and fittings are tight.

8. Reconnect the air supply and test for correct operation.

These checks are to be performed on a daily basis, or prior to the start of each shift where more than one shift operates each day.

Routine Maintenance:

Except where daily checks require replacement of wear items, the intensifier should be fully stripped and serviced once every six months.

Wear items that should be replaced at this six month service are:

- 110-502105-A Seal kit
- 180-AN300-03 3/8BSP Silencer

All other components should be assessed for serviceability at this time and replaced as necessary, as per the servicing instructions in the service section of this manual.

Other factors which may necessitate a full service prior to this six month interval include but are not limited to:

- Intensifier oil found to be dirty
- Intensifier oil found to be water contaminated

Following the discovery of any of these occurrences the intensifier must be removed from service, stripped, and thoroughly assessed for damage.

Appendix 3

Conversion to Single Acting Hydraulic

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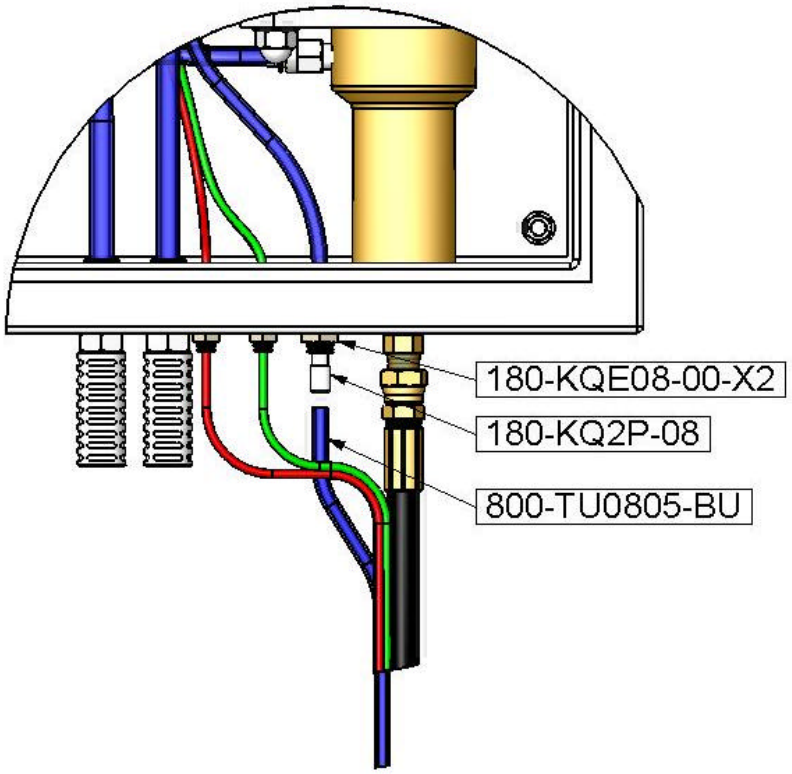
Conversion to Single Acting Hydraulic

The RC50 may be easily converted to single acting hydraulic for use with the RC20 hand tool.

It may also be supplied configured as single acting hydraulic.

Please order as; RC50-2010 Air/Oil intensifier anti-tiedown.

To convert an existing unit;



1. Disconnect the external blue pneumatic hose (800-TU0805-BU) from the fitting (180-KQ2E08-00-X2) and remove it.

2. Take the plastic pneumatic plug (180-KQ2P-08) supplied with the commissioning kit and insert it into the fitting (KQ2E08-00-X2).

Connect to the RC20 hand tool and test for correct operation.

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Appendix 4

Recommended Spare Parts

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Recommended Spare Parts

The following is a list of spare parts that we recommend your engineering department to keep in stock at all times.

Having these parts on hand will assist you to maintain your tool in good working order, and ensure that you avoid down time while waiting for parts delivery should your hand tool require repair.

This list is a minimum recommendation for parts to support one unit in the field.

Where more than one tool is in service, quantities held in stock should be adjusted accordingly.

Qty	Part Number	Description
2	110-502105-A	HYDRAULIC CYLINDER SEAL KIT
1	110-502109-A	PNEUMATIC CYLINDER PISTON
1	110-502110-A	HYD CYL PISTON ROD
1	110-502112-A	NYLON WASHER
10	180-AN300-03	3/8BSP SILENCER
2	180-QVV-F06	COUPLING SCREW TYPE FEMALE
2	180-QVV-M06	COUPLING SCREW TYPE MALE
2	190-KT/AQ3000	3/8 QUICK EXHAUST SERV KIT
15m	800-2-MP-4	HOSE TWINLINE 4MM
1	800-HYD06-2.5	HYDRAULIC HOSE 3/8 X 2.5M
10m	800-TU0805-BU	8MM POLYURETHANE TUBE

In addition to these items we recommend that a minimum of 20 Litres of automatic transmission fluid (ATF) be held on site.

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Appendix 5

Circuit Diagram

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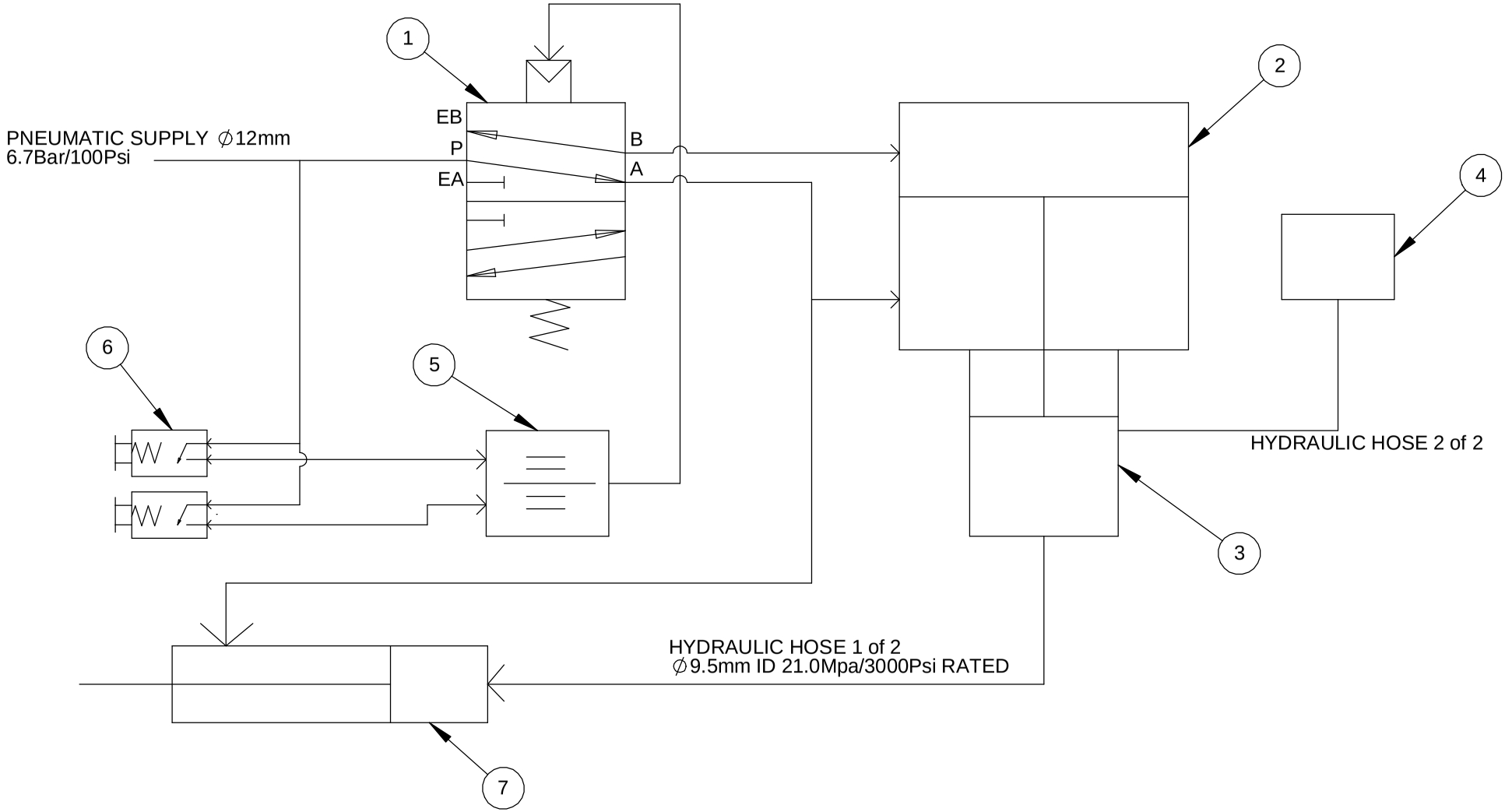

ITEM	DESCRIPTION
1	OPERATING VALVE 5/2 SPRING RETURN
2	ACCUMULATOR MASTER CYLINDER D/A PNEUMATIC
3	ACCUMULATOR SLAVE CYLINDER S/A HYDRAULIC
4	HYDRAULIC FLUID RESERVOIR
5	LOGIC VALVE, "AND" FUNCTION 0.3sec
6	OPERATING SWITCHES, 3/2 N/NP SPRING RETURN
7	HAND TOOL CYLINDER D/A HYDRAULIC/PNEUMATIC

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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBUR AND BREAK SHARP EDGES

DO NOT SCALE DRAWING | REVISION A

	NAME	SIGNATURE	DATE	PART NO OLD
DRAWN	B EAST		8-12-2004	
CHK'D	M ROBINS		8-12-2004	
APPV'D				
MFG				
Q.A				

MATERIAL:

ARGUS REALCOLD LIMITED

TITLE:

CIRCUIT DIAGRAM RC21, RC50

PART NO. RC21-CIRC

A3

SCALE:1:1

SHEET 1 OF 1